CONTENTS VOLUME 46

NUMBER 1

Feature Articles

Late Holocene plants, Cataviña, Baja California. *Julia T. Sankey, Thomas R. Van Devender, and William H. Clark* 1

Population structure and habitat use in Neosho madtom (*Noturus placidus*). *Angela G. Bulger and David R. Edds* 8

Larval development of the Cuatro Ciénegas cichlid, *Cichlasoma minckleyi. Matt J. Stephens and Dean A. Hendrickson* 16

Feeding ecology of three omnivorous fishes in Lake Texoma (Oklahoma-Texas). *Keith B. Gido* 23

Confirmation of daily increment deposition in otoliths of young razorback suckers. *Jay M. Bundy and Kevin R. Bestgen* 34

Movements and demography of the Sonoran mud turtle, *Kinosternon sonoriense. Paul A. Stone* 41

Montane rattlesnakes and prescribed fire. *Lawrence J. Smith, Andrew T. Holycross, Charles W. Painter, and Michael E. Douglas* 54

Food habits of the Chiricahua fox squirrel (*Sciurus nayaritensis chiricahuae*). *John L. Koprowski and Michelle C. Corse* 62

Spatiotemporal variation in rodent abundance in the San Joaquin Valley, California. *Brian L. Cypher* 66

Age structure, survival, and mortality of mountain lions in southeastern Arizona. *Stanley C. Cunningham, Warren B. Ballard, and Heather A. Whitlaw* 76

Use of a wildlife corridor by desert mule deer. *John C. Tull and Paul R. Krausman* 81

Translocation techniques for mountain sheep: does the method matter? *J. Rock Thompson, Vernon C. Bleich, Steve G. Torres, and Gerald P. Mulcahy* 87

Notes

New records for fleas (Siphonaptera) from New Mexico with notes on plague-carrying species. *Richard A. Fagerlund, Paulette L. Ford, and Paul J. Polechla, Jr.* 94

Occurrence of the clingfish, *Gobiesox fluviatilis* (Gobiesociformes: Gobiesocidae), in the Río Chapalagana, México: confirmation of a historical record. *Ana Fabiola Guzmán, Héctor Espinosa Pérez, and Robert Rush Miller* 96

The South American suckermouth armored catfish, *Pterygoplichthys anisitsi* (Pisces: Loricariidae), in Texas, with comments on foreign fish introductions in the American Southwest. *Leo G. Nico and R. Trent Martin* 98

Attempted predation of Couch's spadefoot (*Scaphiopus couchii*) juveniles by ants (*Aphaenogaster cockerelli). Kevin E. Bonine, Gage H. Dayton, and Robin E. Jung* 104

Experimental repatriation of boreal toad (*Bufo boreas*) eggs, metamorphs, and adults in Rocky Mountain National Park. *Erin Muths, Therese L. Johnson, and Paul Stephen Corn* 106

A significant range extension for the montane snake *Rhadinaea lachrymans* (Colubridae). *James R. McCranie and Larry David Wilson* 113

Reassessment of the nominal species of false coral snakes, *Pliocercus psychoides* (Reptilia: Serpentes). *Hobart M. Smith and David Chiszar* 114

Ruby-crowned kinglet impaled on greenbriar thorn. *Clifford E. Shackelford and Julie K. Shackelford* 116

Use of supplemental feed for ungulates by non-target species. *Billy C. Lambert, Jr. and Stephen Demarais* 118

Does paternal care of pups benefit breeding female coyotes? *Benjamin N. Sacks and Jennifer C. C. Neale* 121

A new individual marking technique: positional hair clipping. *Whitney C. Johnson* 126

Body mass of American black bears from Florida and Mexico. *D. S. Maehr, E. C. Hellgren, R. L. Bingham, and D. L. Doan-Crider* 129

Announcements 134

Number 2

Feature Articles

Population estimates, movements, and size structure of the endangered Quitobaquito pupfish, *Cyprinodon macularius eremus*. *Marlis R. Douglas, Michael E. Douglas, and Patrick C. Brunner* . . 141

Ecology of the alligator gar, *Atractosteus spatula*, in the Vicente Guerrero Reservoir, Tamaulipas, México. *Francisco J. García de León, Leonardo González-García, José M. Herrera-Castillo, Kirk O. Winemiller, and Alfonso Banda-Valdés* 151

Distribution and notes on the biology of Zuni bluehead sucker, *Catostomus discobolus yarrowi*, in New Mexico. *David L. Propst, Amber L. Hobbes, and Terry L. Stroh* 158

Effects of black-tailed prairie dogs on reptiles and amphibians in Kansas shortgrass prairie. *Justin E. Kretzer and Jack F. Cully, Jr.* 171

Survival and home ranges of opossums in northeastern Kansas. *Philip S. Gipson and Jan F. Kamler* 178

Influence of predation by mountain lions on numbers and survivorship of a feral horse population. *John W. Turner, Jr. and Michael L. Morrison* 183

Riparian plant communities in the mountains of southeastern Arizona. *Steven J. Danzer, Roy Jemison, and D. Phillip Guertin* 191

Notes

Diatoms (Bacillariophyta) from saline waters within Quivira National Wildlife Refuge, Stafford County, Kansas. *Marsha R. Harris and Mark E. Eberle* 200

Surface-active arthropods of shortgrass prairie: new county and state records from New Mexico. *Sandra L. Brantley, Paulette L. Ford, Richard A. Fagerlund, and David C. Lightfoot* 207

Harvester ants (*Pogonomyrmex occidentalis*) and pocket gopher (*Thomomys talpoides*) mounds on a shortgrass steppe in Colorado. *Matthew E. Hopton* 209

A *Brachionus* (Rotifera: Monogononta: Brachionidae) new to North America. *William R. Mabee* 213

Diet and growth of smallmouth bass in the Devils River, Texas. *Michael S. Robertson and Kirk O. Winemiller* 216

Predation on velvet ants (Hymenoptera: Mutillidae) by Texas horned lizards (*Phrynosoma cornutum*). *Donald G. Manley and Wade C. Sherbrooke* 221

Helminth communities of subpopulations of the Pacific treefrog, *Hyla regilla* (Hylidae), from Baja California, México. *Stephen R. Goldberg, Charles R. Bursey, and Erik W. A. Gergus* 223

Nesting record of a Big Bend slider turtle (*Trachemys gaigeae*) in New Mexico, and overwintering of hatchlings in the nest. *Carrie L. Morjan and James N. Stuart* 230

Trichomonas gallinae in an expanding population of white-winged doves from Texas. *Jason W. Glass, Alan M. Fedynich, Michael F. Small, and Steve J. Benn* 234

First nesting records of the black phoebe (*Sayornis nigricans*) in southernmost Texas. *Timothy Brush* 237

Foods of northern bobwhites (*Colinus virginianus*) in southeastern New Mexico. *John L. Hunt and Troy L. Best* 239

Noteworthy records of the little pocket mouse (Heteromyidae: *Perognathus longimembris*) on the Baja California peninsula. *Sergio Ticul Alvarez-Castañeda, Evelyn Rios, and Anahid Gutierrez-Ramos* 243

Habitat selection by collared peccaries in Trans-Pecos Texas. *M. Clay Green, Louis A. Harveson, and Lynn E. Loomis* 246

First evidence of the giant anteater (*Myrmecophaga tridactyla*) in Honduras. *Christy M. McCain* . . 252

Announcements 255

Number 3

Feature Articles

Vertebrate pollination, fruit production, and pollen dispersal of *Stenocereus thurberi* (Cactaceae). *Catherine T. Sahley* 261

Implications of seed size for seedling survival in *Carnegiea gigantea* and *Ferocactus wislizeni* (Cactaceae). *Janice E. Bowers and Elizabeth A. Pierson* 272

Diagnostic phytoliths for a ponderosa pine-bunchgrass community near Flagstaff, Arizona. *Becky*

K. Kerns 282
Nutritional quality of shinnery oak buds and catkins in response to burning or herbivory. *Chad S. Boyd, Lance T. Vermeire, T. G. Bidwell, and Robert L. Lochmiller* 295
Effects of flooding on recruitment of roundtail chub, *Gila robusta*, in a southwestern river. *Mark J. Brouder* 302
Stable isotope signatures of native and nonnative fishes in Upper Colorado River backwaters and ponds. *Patrick J. Martinez, Brett M. Johnson, and Joshua D. Hobgood* 311
Influence of changes in sagebrush on Gunnison sage grouse in southwestern Colorado. *Sara J. Oyler-McCance, Kenneth P. Burnham, and Clait E. Braun* 323
Short-term impacts of prescribed fire on a rodent community in desert grasslands. *Christopher S. Fitzgerald, Paul R. Krausman, and Michael L. Morrison* 332
Influence of roads on movements of small mammals. *Bryon K. Clark, Brenda S. Clark, Lacrecia A. Johnson, and Michael T. Haynie* 338
Precipitation and desert bighorn sheep in the Mazatzal Mountains, Arizona. *Ted McKinney, Thornton W. Smith, and Jonathan D. Hanna* 345
Bed-site selection by desert mule deer in southern Arizona. *John C. Tull, Paul R. Krausman, and Robert J. Steidl* 354

Notes

Colony size fluctuation of *Anoura geoffroyi* (Chiroptera: Phyllostomidae) and temperature characterization in a Mexican cave. *José Ramírez-Pulido, Cristóbal Galindo-Galindo, Alondra Castro-Campillo, Arturo Salame-Méndez, and Miguel Angel Armella* 358
Observations of predation on *Crotalus willardi obscurus* in the Animas Mountains, New Mexico. *Andrew T. Holycross, Larry K. Kamees, and Charles W. Painter* 363
Reproduction of the river cooter, *Pseudemys concinna*, in Arkansas and across its range. *John B. Iverson* 364
Distribution of the big free-tailed bat (*Nyctinomops macrotis*) in Colorado. *Kirk W. Navo and Jeffery A. Gore* 370
Summer nests of Preble's meadow jumping mouse. *Thomas R. Ryon* 376
Range expansion of mule deer in the Texas Panhandle. *Jan F. Kamler, Warren B. Ballard, and Danny A. Swepston* 378
First fossil record of *Euderma maculatum* (Chiroptera: Vespertilionidae), eastern Grand Canyon, Arizona. *Jim I. Mead and David G. Mikesic* 380
Comparison of blood squirted from the circumorbital sinus and systemic blood in a horned lizard, *Phrynosoma cornutum*. *George A. Middendorf III, Wade C. Sherbrooke, and Eldon J. Braun* 384
Reproduction in the ground snake, *Sonora semiannulata* (Serpentes: Colubridae), from Arizona. *Stephen R. Goldberg* 387
Natural history and distribution of the lizard *Barisia rudicollis* (Anguidae). *Alejandro Zaldívar-Riverón and Adrian Nieto-Montes de Oca* 391
Coexistence of native ants with the red imported fire ant, *Solenopsis invicta*. *Ken R. Helms and S. Bradleigh Vinson* 396
Vines of two Texan semi-arid desert communities: floristic composition and ecological notes. *Alexander Krings* 400
Absence of discriminatory tongue-flicking responses to plant chemicals by helodermatid lizards. *William E. Cooper, Jr. and Johnny Arnett* 405
Announcements 410

Number 4

The Southwestern Naturalist: Index to Volumes 37 through 46 (1992 Through 2001). *Troy L. Best* 417
Announcements 525

Cover: Design by Coral McCallister.